

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P595327

Luminaire Tested: **IST-PA1E-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-827-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5317 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

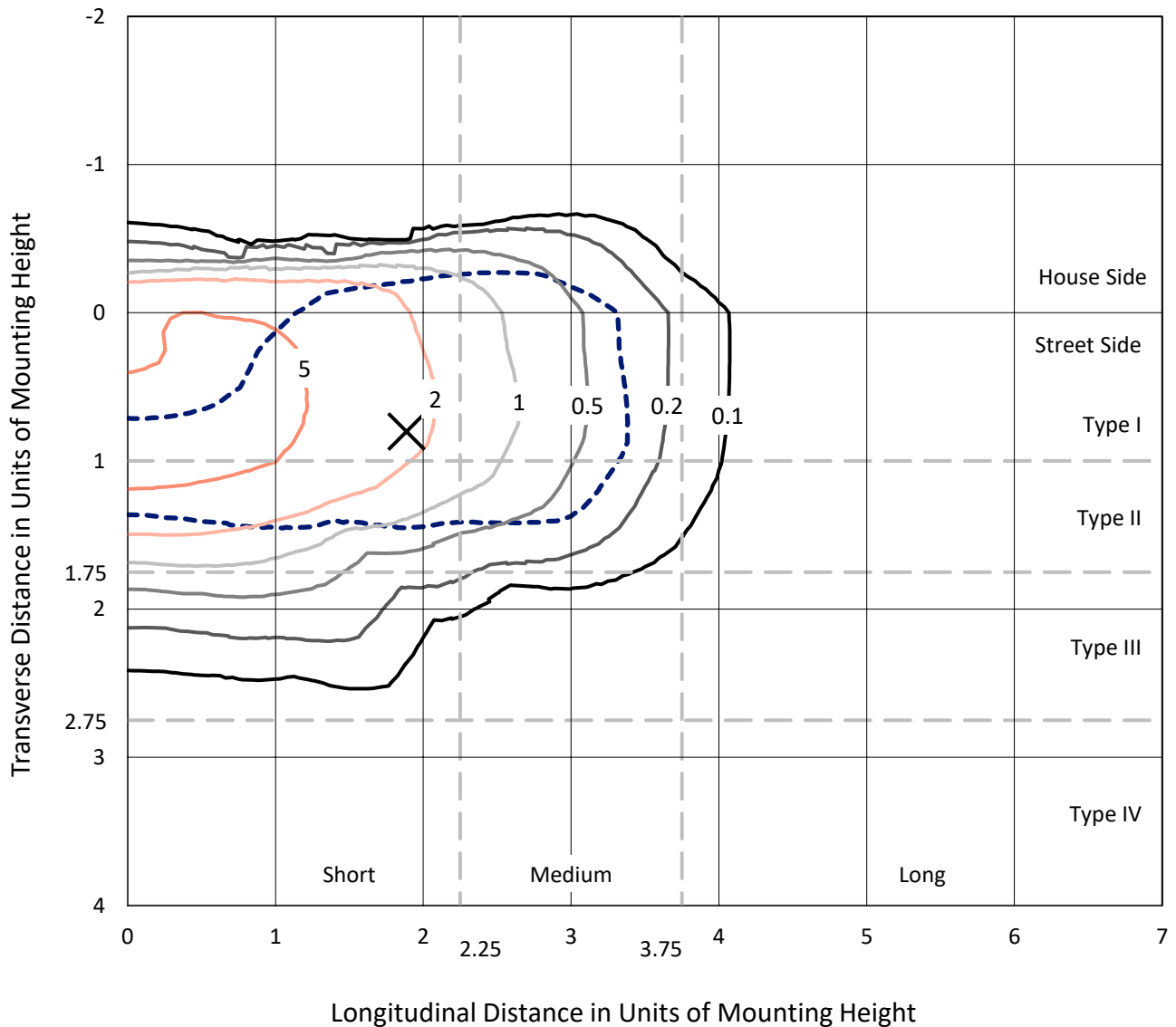
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

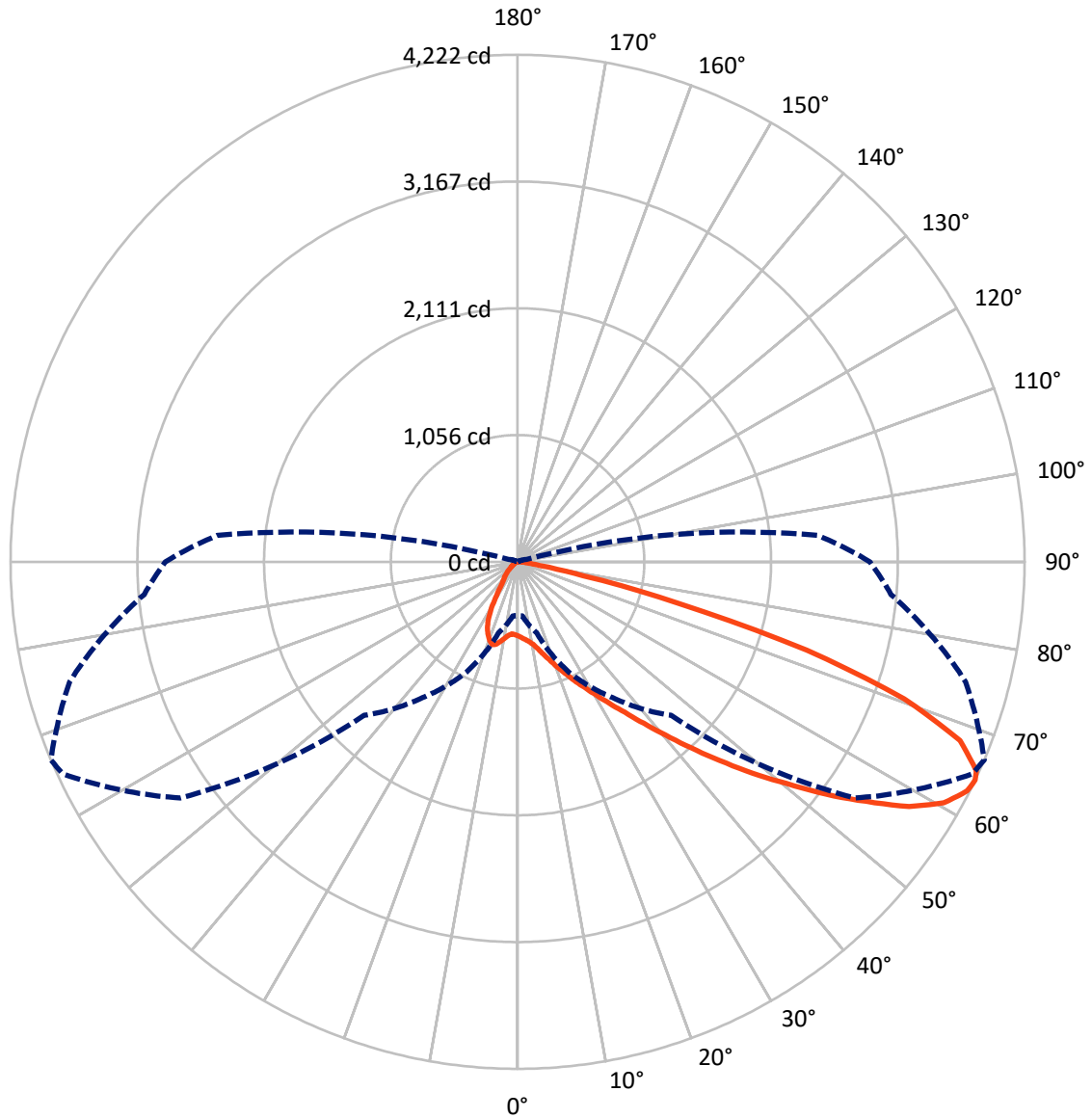
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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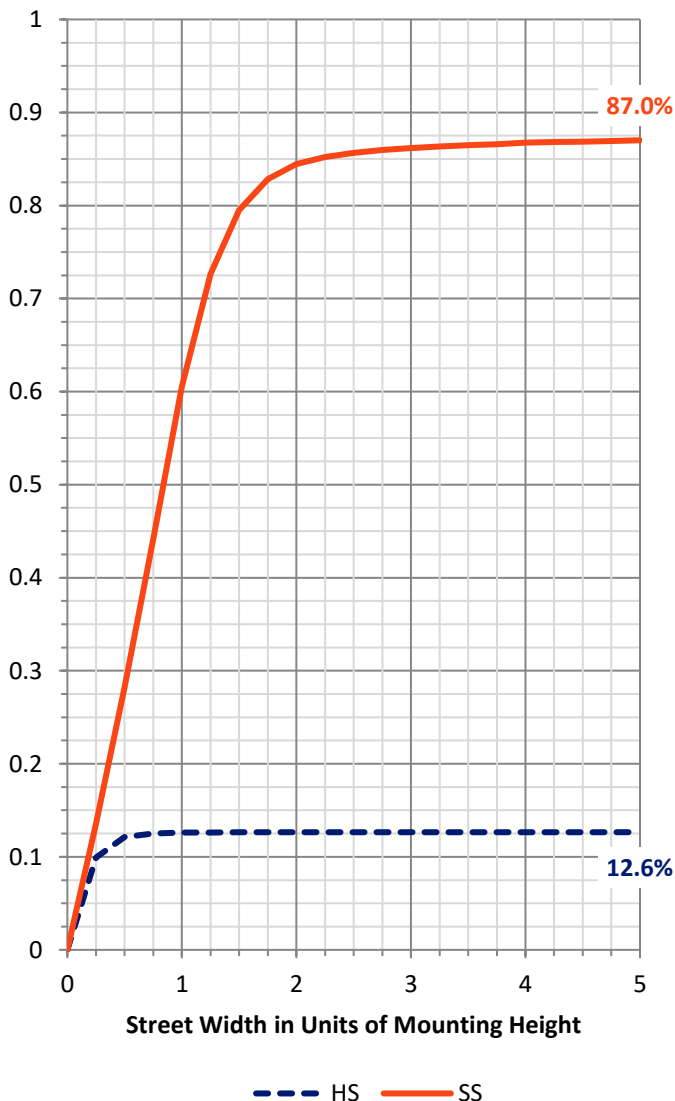
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	680.1	0.0	680.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4636.8	0.0	4636.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	5317.0	0.0	5317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.1
10°-20°	173.0	3.3
20°-30°	313.8	5.9
30°-40°	601.2	11.3
40°-50°	1108.1	20.8
50°-60°	1431.2	26.9
60°-70°	1172.3	22.0
70°-80°	430.9	8.1
80°-90°	27.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5317.0	100.0
0°-180°	5317.0	100.0

Coefficient of Utilization

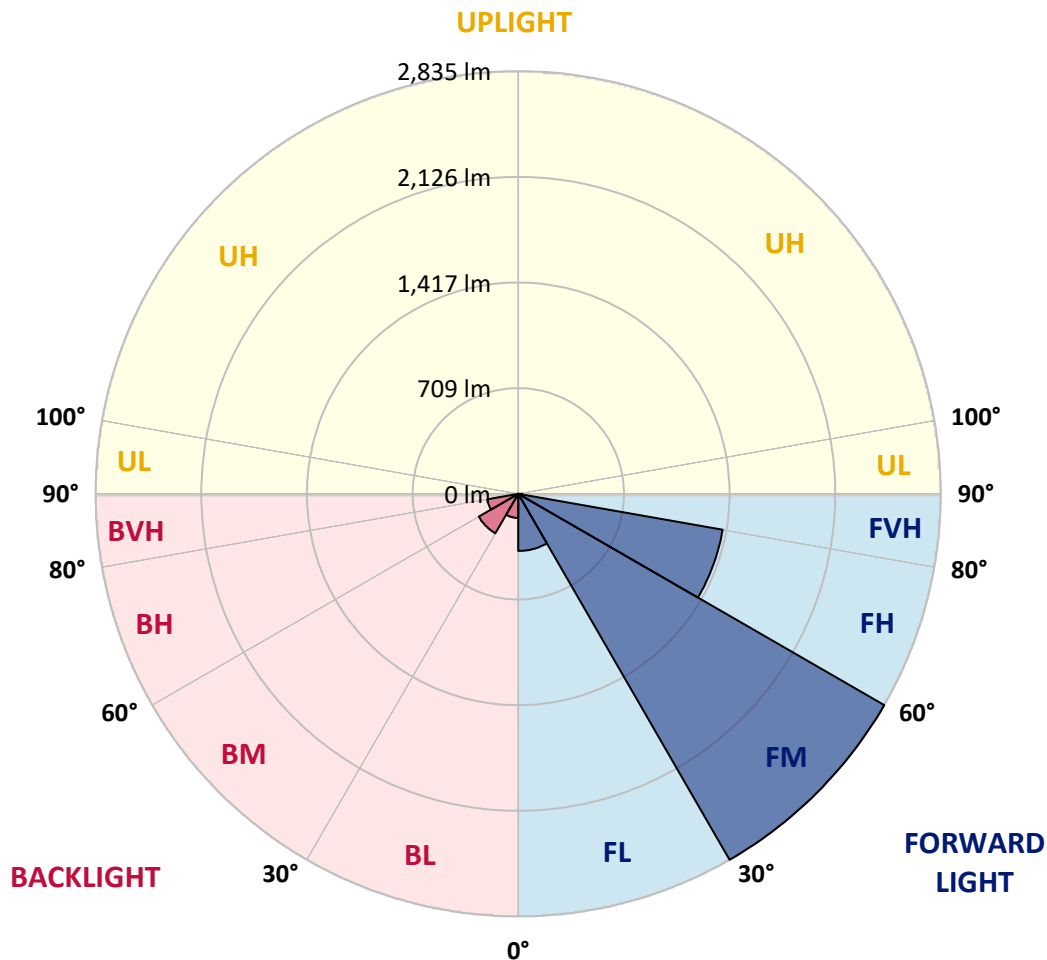


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.3	7.2			
FM (30°-60°)	2834.7	53.3			
FH (60°-80°)	1392.2	26.2			G1/1800
FVH (80°-90°)	26.5	0.5			G1/100
BL (0°-30°)	162.1	3.0	B1/500		
BM (30°-60°)	305.8	5.8	B1/1000		
BH (60°-80°)	211.0	4.0	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	639.7	639.7	643.4	641.6	641.6	637.9	632.4	634.3	632.4	630.6	625.1
5°	628.8	630.6	632.4	636.1	643.4	647.1	647.1	648.9	648.9	647.1	639.7
7.5°	623.3	626.9	630.6	634.3	643.4	648.9	658.0	669.0	669.0	670.8	663.5
10°	643.4	647.1	652.5	658.0	667.2	676.3	683.6	696.4	696.4	700.1	698.2
12.5°	685.4	685.4	687.3	690.9	703.7	714.7	727.5	738.4	740.3	742.1	736.6
15°	736.6	736.6	738.4	738.4	745.8	762.2	786.0	796.9	795.1	793.3	782.3
17.5°	795.1	795.1	795.1	796.9	800.6	809.7	837.1	859.1	857.3	855.4	833.5
20°	849.9	853.6	857.3	859.1	862.7	870.1	899.3	924.9	930.4	923.1	884.7
22.5°	912.1	913.9	915.7	921.2	930.4	934.0	963.3	1001.7	1007.1	998.0	946.8
25°	974.2	977.9	983.4	990.7	999.8	1018.1	1038.2	1089.4	1094.9	1083.9	1014.4
27.5°	1111.3	1109.5	1093.0	1080.3	1082.1	1094.9	1122.3	1177.1	1182.6	1171.6	1082.1
30°	1345.3	1323.4	1292.3	1235.6	1180.8	1186.3	1224.7	1277.7	1286.8	1272.2	1157.0
32.5°	1678.0	1656.0	1579.3	1455.0	1334.3	1294.1	1343.5	1394.6	1405.6	1389.2	1244.8
35°	2001.5	1996.0	1922.9	1773.0	1568.3	1456.8	1469.6	1535.4	1539.0	1518.9	1354.4
37.5°	2401.8	2381.7	2281.1	2113.0	1871.7	1672.5	1635.9	1698.1	1707.2	1683.4	1487.9
40°	2666.8	2659.5	2599.2	2480.4	2220.8	1970.4	1838.8	1899.1	1897.3	1862.6	1641.4
42.5°	2820.4	2824.0	2820.4	2763.7	2615.6	2328.7	2107.5	2111.2	2116.6	2080.1	1818.7
45°	2924.5	2924.5	2930.0	2975.7	2919.1	2756.4	2434.7	2352.4	2359.7	2303.1	2003.3
47.5°	2922.7	2933.7	2962.9	3068.9	3145.7	3154.8	2844.1	2633.9	2630.3	2544.3	2193.4
50°	2725.3	2718.0	2838.6	3076.3	3306.6	3483.9	3231.6	2931.9	2900.8	2794.8	2390.8
52.5°	2281.1	2304.9	2506.0	2855.1	3344.9	3706.9	3566.1	3257.2	3217.0	3043.3	2564.5
55°	1893.6	1919.2	2114.8	2456.6	3136.6	3785.5	3790.9	3602.7	3522.2	3259.0	2743.6
57.5°	1422.1	1471.4	1760.2	2081.9	2679.6	3589.9	3871.4	3933.5	3845.8	3467.4	2889.8
60°	908.4	937.7	1261.2	1657.8	2171.5	3078.1	3854.9	4125.4	4077.9	3657.5	3012.3
62.5°	594.0	610.5	833.5	1248.4	1654.2	2319.5	3659.3	4202.2	4202.2	3785.5	3103.7
64°	447.8	451.5	610.5	1014.4	1380.0	1807.7	3429.0	4178.4	4222.3	3862.2	3121.9
65°	354.6	356.4	477.1	842.6	1239.3	1482.4	3228.0	4127.3	4198.5	3891.5	3132.9
67.5°	248.6	254.1	308.9	486.2	888.3	855.4	2392.6	3886.0	3973.7	3900.6	3118.3
70°	215.7	223.0	259.6	318.0	634.3	497.2	1272.2	3312.0	3416.2	3633.7	2902.6
72.5°	164.5	173.6	217.5	268.7	446.0	336.3	491.7	2352.4	2516.9	2809.4	2396.3
75°	118.8	122.5	160.8	219.3	312.6	259.6	212.0	1213.7	1380.0	1657.8	1489.7
77.5°	74.9	80.4	109.7	164.5	279.7	197.4	126.1	442.3	557.5	722.0	650.7
80°	43.9	45.7	65.8	113.3	188.3	146.2	80.4	157.2	190.1	268.7	173.6
82.5°	25.6	27.4	42.0	76.8	122.5	113.3	51.2	80.4	89.6	102.4	36.6
85°	9.1	9.1	29.2	45.7	65.8	56.7	29.2	42.0	45.7	56.7	11.0
87.5°	1.8	1.8	14.6	23.8	23.8	9.1	14.6	18.3	21.9	31.1	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	623.3	617.8	612.3	605.0	599.5	588.6	583.1	575.8	573.9	570.3	568.5
5°	637.9	628.8	616.0	597.7	586.7	570.3	559.3	548.4	546.5	542.9	541.0
7.5°	658.0	648.9	632.4	612.3	594.0	577.6	564.8	548.4	531.9	519.1	519.1
10°	690.9	680.0	658.0	639.7	617.8	583.1	522.8	467.9	433.2	411.3	404.0
12.5°	731.1	716.5	692.8	670.8	628.8	519.1	425.9	354.6	296.1	268.7	263.2
15°	773.2	760.4	736.6	703.7	577.6	433.2	310.7	201.1	144.4	118.8	122.5
17.5°	818.9	800.6	773.2	707.4	508.1	323.5	166.3	102.4	87.7	84.1	84.1
20°	866.4	842.6	815.2	667.2	418.6	186.4	95.0	76.8	71.3	65.8	67.6
22.5°	917.6	888.3	846.3	606.8	299.8	100.5	73.1	62.1	54.8	53.0	53.0
25°	972.4	930.4	877.4	537.4	173.6	76.8	60.3	49.4	43.9	42.0	40.2
27.5°	1030.9	977.9	884.7	446.0	98.7	64.0	47.5	38.4	32.9	31.1	31.1
30°	1083.9	1025.4	868.2	330.8	74.9	53.0	38.4	29.2	25.6	25.6	25.6
32.5°	1155.2	1078.4	817.0	206.5	60.3	42.0	29.2	23.8	20.1	20.1	20.1
35°	1248.4	1157.0	765.9	109.7	49.4	34.7	23.8	18.3	16.5	16.5	16.5
37.5°	1376.4	1261.2	720.2	69.5	40.2	27.4	18.3	14.6	12.8	12.8	12.8
40°	1508.0	1385.5	656.2	53.0	32.9	21.9	14.6	11.0	9.1	9.1	11.0
42.5°	1672.5	1529.9	583.1	45.7	27.4	18.3	11.0	7.3	5.5	7.3	7.3
45°	1838.8	1681.6	480.7	38.4	23.8	14.6	7.3	3.7	3.7	5.5	5.5
47.5°	2010.6	1842.5	372.9	32.9	20.1	11.0	5.5	1.8	1.8	3.7	3.7
50°	2187.9	2001.5	277.8	29.2	16.5	9.1	3.7	1.8	0.0	1.8	1.8
52.5°	2365.2	2155.0	215.7	25.6	14.6	7.3	1.8	0.0	0.0	0.0	1.8
55°	2529.7	2293.9	171.8	21.9	12.8	5.5	1.8	0.0	0.0	0.0	0.0
57.5°	2668.6	2396.3	137.1	20.1	11.0	3.7	1.8	0.0	0.0	0.0	0.0
60°	2800.2	2476.7	106.0	16.5	9.1	3.7	1.8	0.0	0.0	0.0	0.0
62.5°	2893.5	2507.8	85.9	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0
64°	2933.7	2511.4	74.9	12.8	7.3	3.7	1.8	0.0	0.0	0.0	0.0
65°	2957.4	2500.5	69.5	12.8	7.3	3.7	1.8	0.0	0.0	0.0	0.0
67.5°	2962.9	2440.2	53.0	11.0	5.5	1.8	1.8	0.0	0.0	0.0	0.0
70°	2802.1	2230.0	38.4	7.3	3.7	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2341.5	1703.5	25.6	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0
75°	1462.3	736.6	14.6	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	605.0	223.0	9.1	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
80°	138.9	53.0	3.7	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	9.1	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	7.3	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)